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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Applicant has submitted a new complete claim set showing marked up claims with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please add new claims 68-78 and amend the claims as follows.

- 1-41. (Canceled)
- 42. (Amended Herewith) A method for treating cancer, comprising:

administering to a <u>human</u> subject an effective amount for treating cancer of a <u>stabilized</u> CpG immunostimulatory oligonucleotide <u>having at least one unmethylated CpG dinucleotide</u> wherein at <u>least one nucleotide of the stabilized CpG immunostimulatory oligonucleotide has a phosphate</u> <u>backbone modification and wherein the oligonucleotide is 8 to 100 nucleotides in length</u>.

- 43. (Previously Presented) The method of claim 42, further comprising administering a chemotherapeutic agent.
- 44. (Previously Presented) The method of claim 42, further comprising administering a cancer immunotherapeutic agent.
 - 45. (Previously Presented) The method of claim 42, wherein the cancer is brain cancer.
 - 46. (Previously Presented) The method of claim 42, wherein the cancer is lung cancer.
 - 47. (Previously Presented) The method of claim 42, wherein the cancer is ovarian cancer.
 - 48. (Previously Presented) The method of claim 42, wherein the cancer is breast cancer.
 - 49. (Previously Presented) The method of claim 42, wherein the cancer is prostate cancer.

50. (Previously Presented) The method of claim 42, wherein the cancer is colon cancer.

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- 51. (Previously Presented) The method of claim 42, wherein the cancer is leukemia.
- 52. (Previously Presented) The method of claim 42, wherein the cancer is carcinoma.
- 53. (Previously Presented) The method of claim 42, wherein the cancer is sarcoma.
- 54-55. (Canceled Herewith)
- 56. (Amended Herewith) The method of claim <u>42</u> 54, wherein the phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.
- 57. (Amended Herewith) The method of claim 56, wherein the stabilized CpG immunostimulatory oligonucleotide includes the phosphate backbone modification on the 5' internucleotide linkages.
- 58. (Amended Herewith) The method of claim 56, wherein the stabilized CpG immunostimulatory oligonucleotide includes the phosphate backbone modification on the 3' internucleotide linkages.
- 59. (Amended Herewith) The method of claim 42, wherein the stabilized CpG immunostimulatory oligonucleotide comprises:

wherein X_1X_2 and X_3X_4 are nucleotides.

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- 60. (Amended Herewith) The method of claim 59, wherein X_1X_2 are nucleotides selected from the group consisting of: GpT, GpG, GpA, ApA, ApT, ApG, CpT, CpA, CpG, TpA, TpT, and TpG; and X_3X_4 are nucleotides selected from the group consisting of: TpT, CpT, ApT, TpG, ApG, CpG, and TpC, ApC, CpC, TpA, ApA, and CpA.
- 61. (Previously Presented) The method of claim 59, wherein X_1X_2 are GpA and X_3X_4 are TpT.
- 62. (Previously Presented) The method of claim 59, wherein X_1X_2 are both purines and X_3X_4 are both pyrimidines.
- 63. (Previously Presented) The method of claim 59, wherein X_1X_2 are GpA and X_3X_4 are both pyrimidines.
- 64. (Previously Presented) The method of claim 59, wherein the oligonucleotide is 8 to 40 nucleotides in length.
- 65. (Previously Presented) The method of claim 59, wherein 5' X₁ X₂CGX₃ X₄ 3' is not palindromic.
- 66. (Previously Presented) The method of claim 42, wherein the CpG immunostimulatory oligonucleotide includes at least two CpG motifs.
- 67. (Previously Presented) The method of claim 66, wherein at least one of the at least two CpG motifs is not palindromic.

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- 68. (New) The method of claim 42, wherein the oligonucleotide is administered prior to a chemotherapy.
- 69. (New) The method of claim 42, wherein the oligonucleotide is administered subcutaneously.
- 70. (New) The method of claim 42, wherein the oligonucleotide is administered with an antibody for antibody dependent cellular cytotoxicity.
- 71. (New) A method for treating non small cell lung carcinoma (NSCLC) in a human subject, comprising

administering to a human subject having NSCLC an effective amount to treat NSCLC of an immunostimulatory oligonucleotide that includes at least one unmethylated CpG dinucleotide, wherein the immunostimulatory oligonucleotide includes a phosphate backbone modification and, wherein the oligonucleotide is 8 to 100 nucleotides in length.

- 72. (New) The method of claim 71, further comprising administering a chemotherapeutic agent.
- 73. (New) The method of claim 71, further comprising administering an immunotherapeutic agent.
- 74. (New) The method of claim 71, wherein the phosphate backbone modification is a phosphorothioate modification.
- 75. (New) The method of claim 71, wherein the oligonucleotide is 8 to 40 nucleotides in length.

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- 76. (New) The method of claim 71, wherein the CpG immunostimulatory oligonucleotide includes at least two CpG motifs.
- 77. (New) The method of claim 76, wherein at least one of the at least two CpG motifs is not palindromic.
- 78. (New) The method of claim 71, wherein the oligonucleotide is administered subcutaneously.